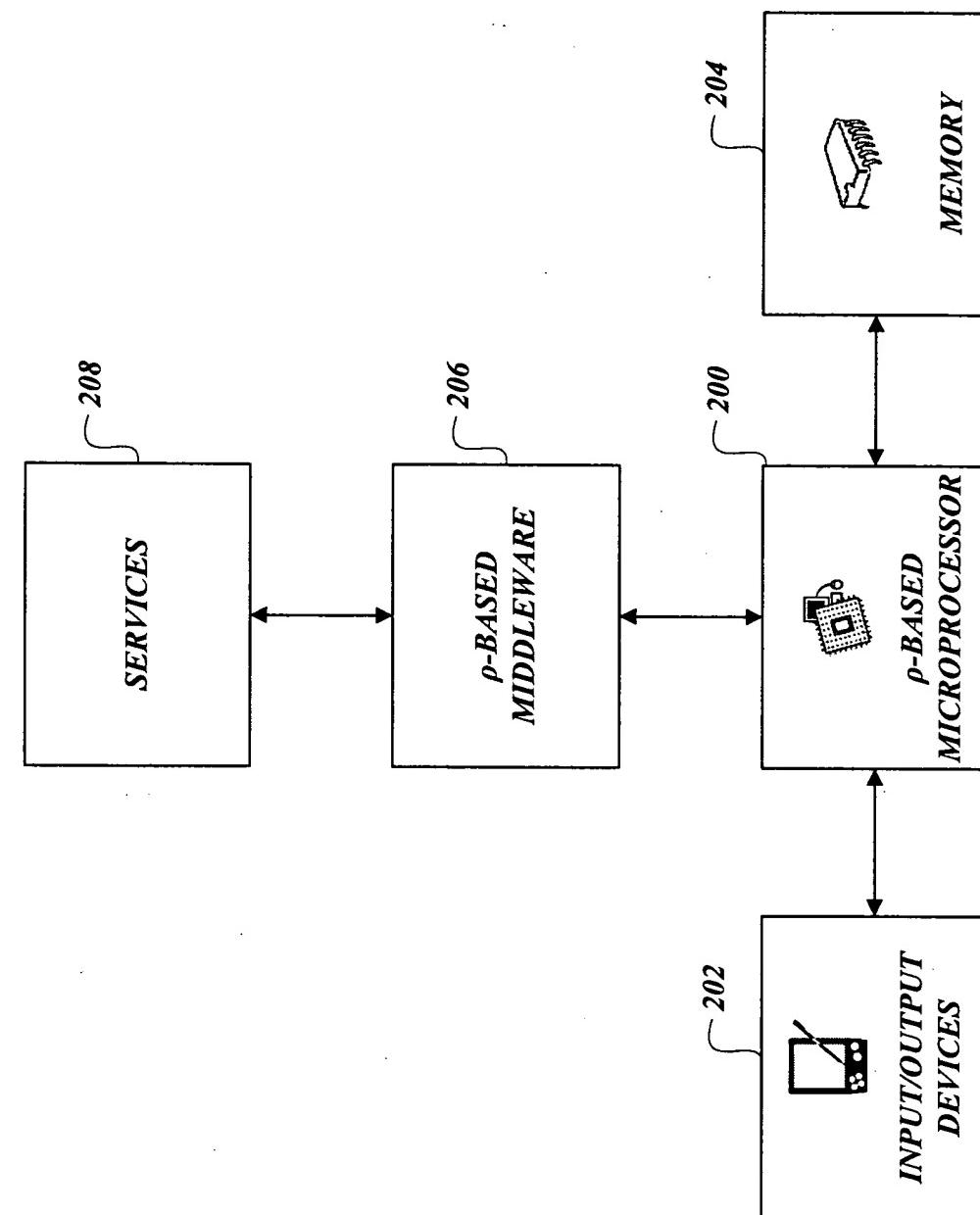


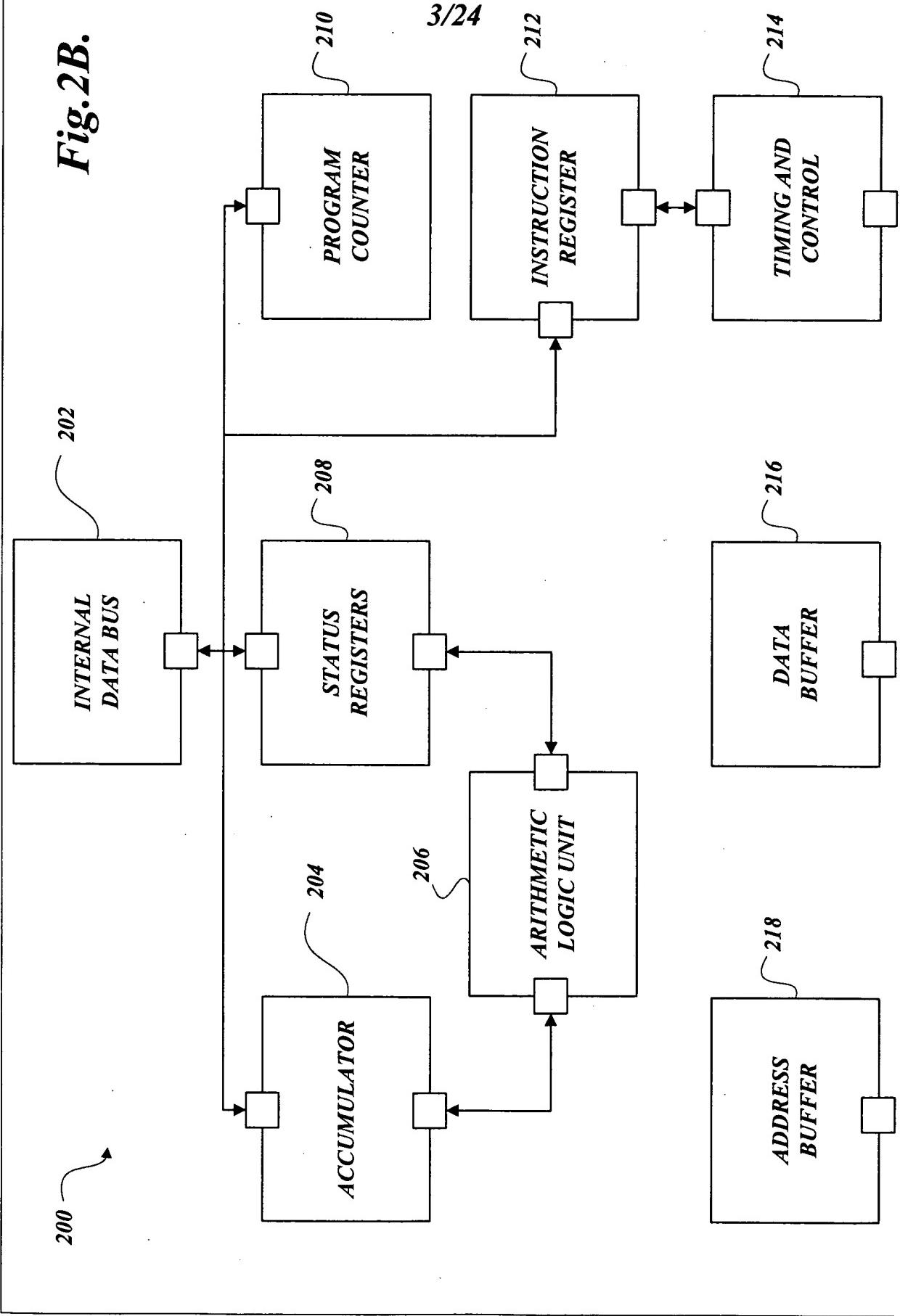
**Fig. 1.**

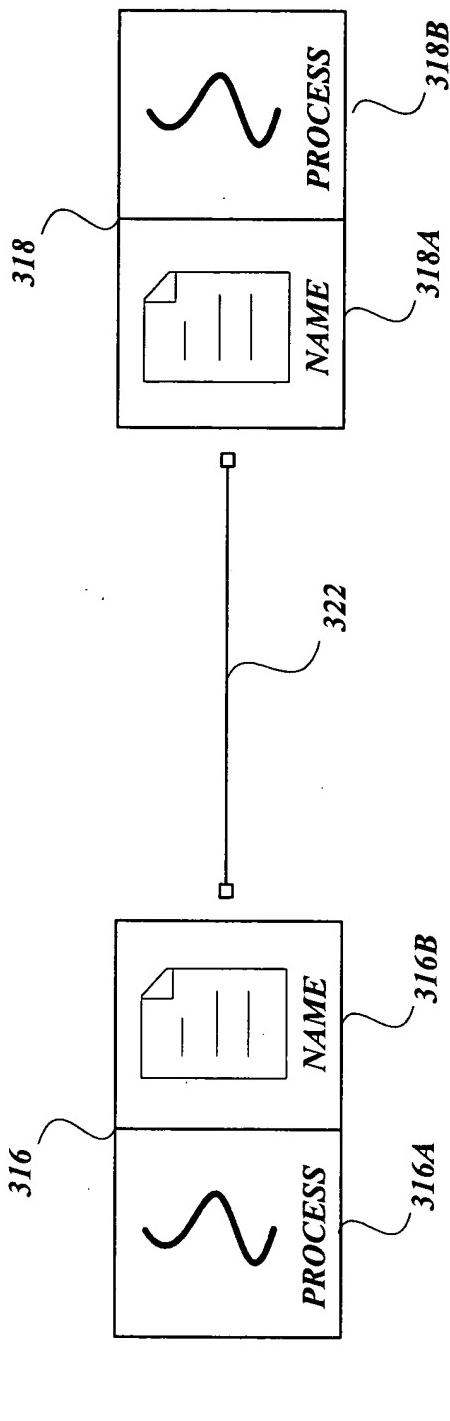


**Fig. 2A.**

Fig. 2B.

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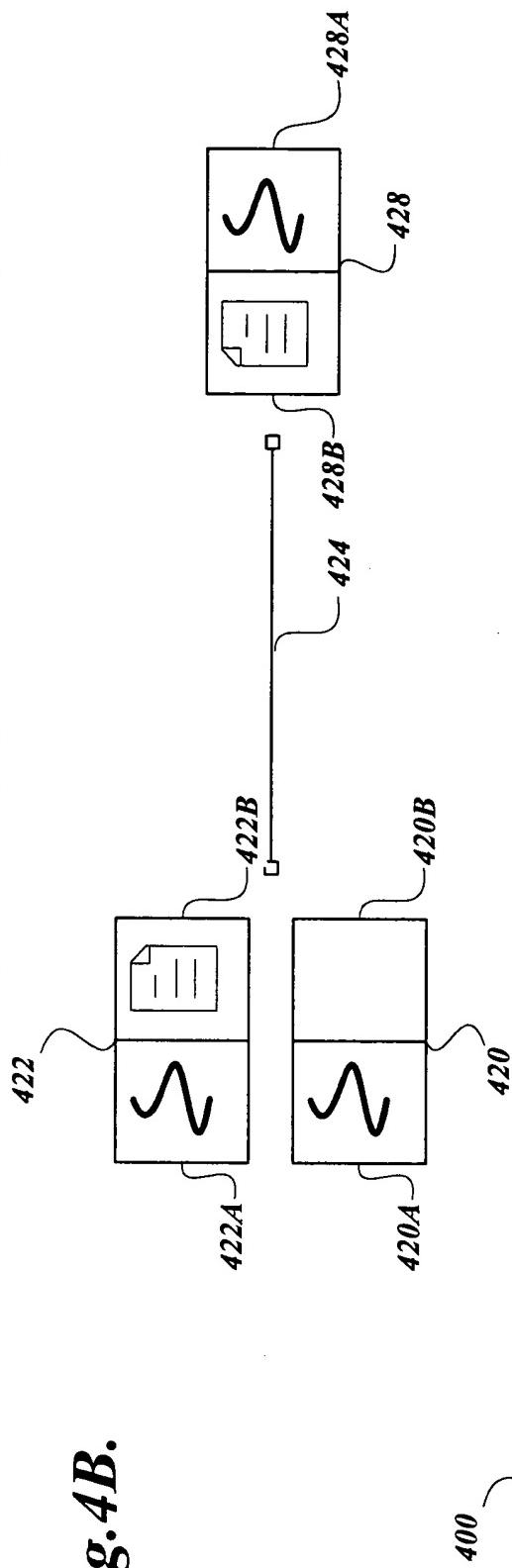


*Fig.3B.*

RHO-CALCULUS	
$P ::= \theta$	$\overbrace{302}$
$  X[X]$	$\overbrace{304}$
$  X(X) . P$	$\overbrace{306}$
$  LIFT X . P$	$\overbrace{308}$
$  P   P$	$\overbrace{310}$
$  \rangle X \langle$	$\overbrace{312}$
$  X ::= \langle P \rangle$	$\overbrace{314}$

*Fig.3A.*

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*Fig. 4B.*

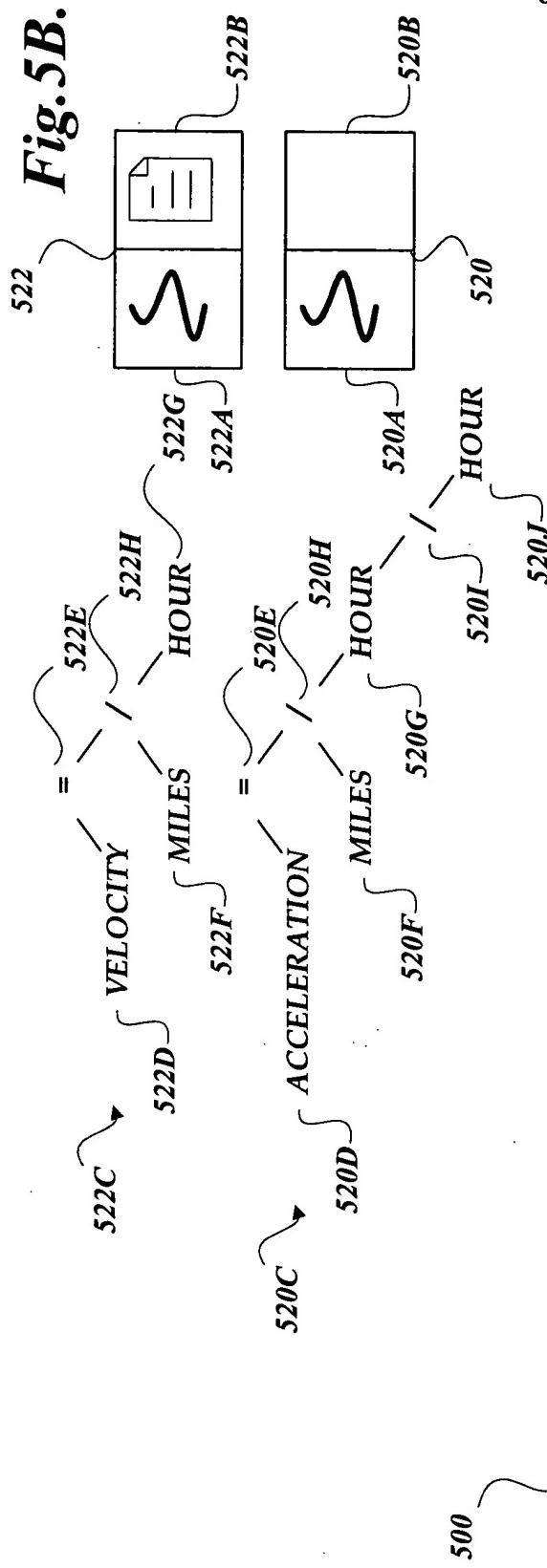
**TYPED PROCESSES IN RHO-CALCULUS**

$$\begin{array}{l}
 P ::= 0 \quad \boxed{402} \\
 | X[Y] \quad \boxed{404} \\
 | X(Z) . P \quad \boxed{406} \\
 | LIFT X . P \quad \boxed{408} \\
 | P|P \quad \boxed{410} \\
 | \rangle X \langle \quad \boxed{412} \\
 | \langle P \rangle \quad \boxed{414} \\
 Y ::= \langle P \rangle , P:T \quad \boxed{416} \\
 Z ::= \langle P \rangle , P:U \quad \boxed{418}
 \end{array}$$

*Fig. 4A.*

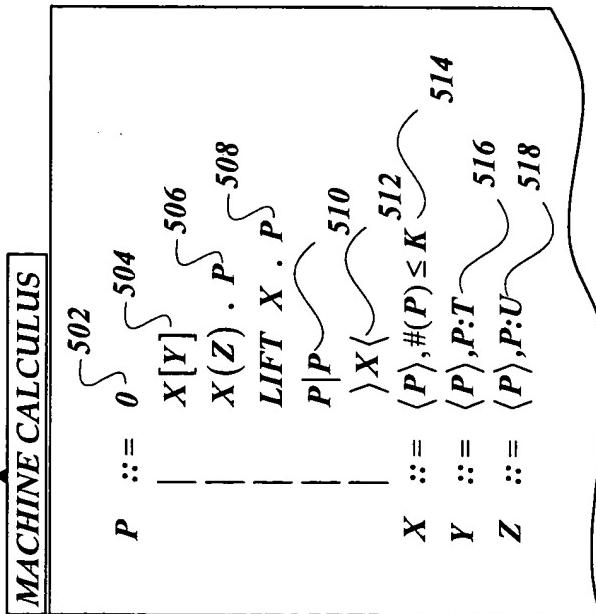
MSFT-1-22259

300A →  
 302 →



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**Fig. 5A.**



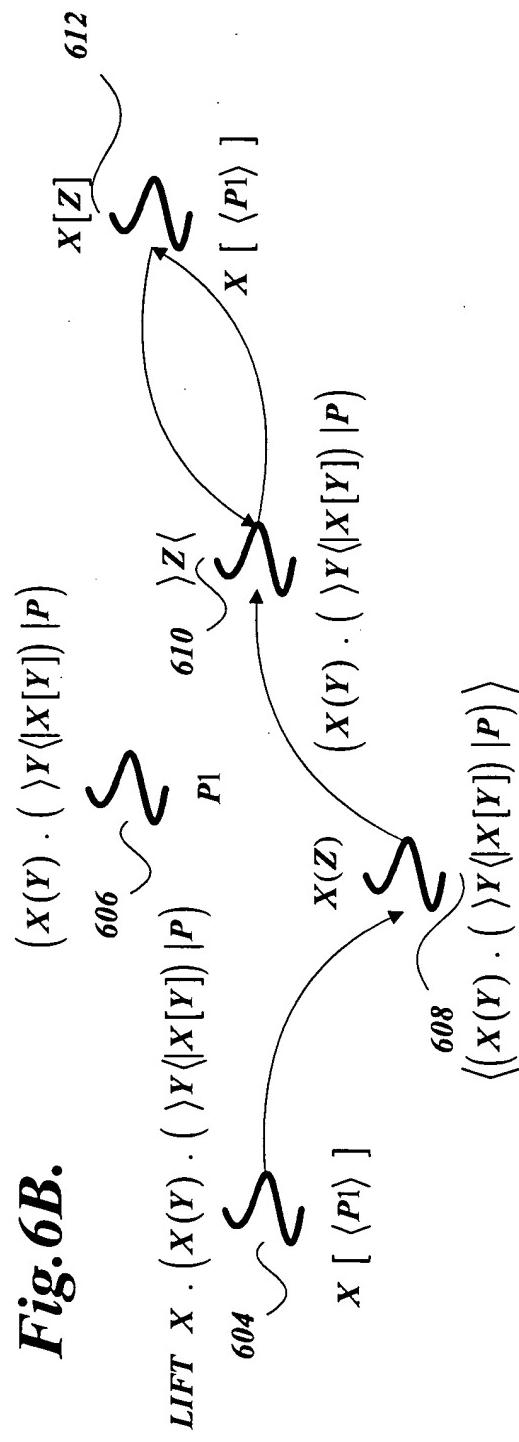
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**Fig. 6A.**

REPLICATION

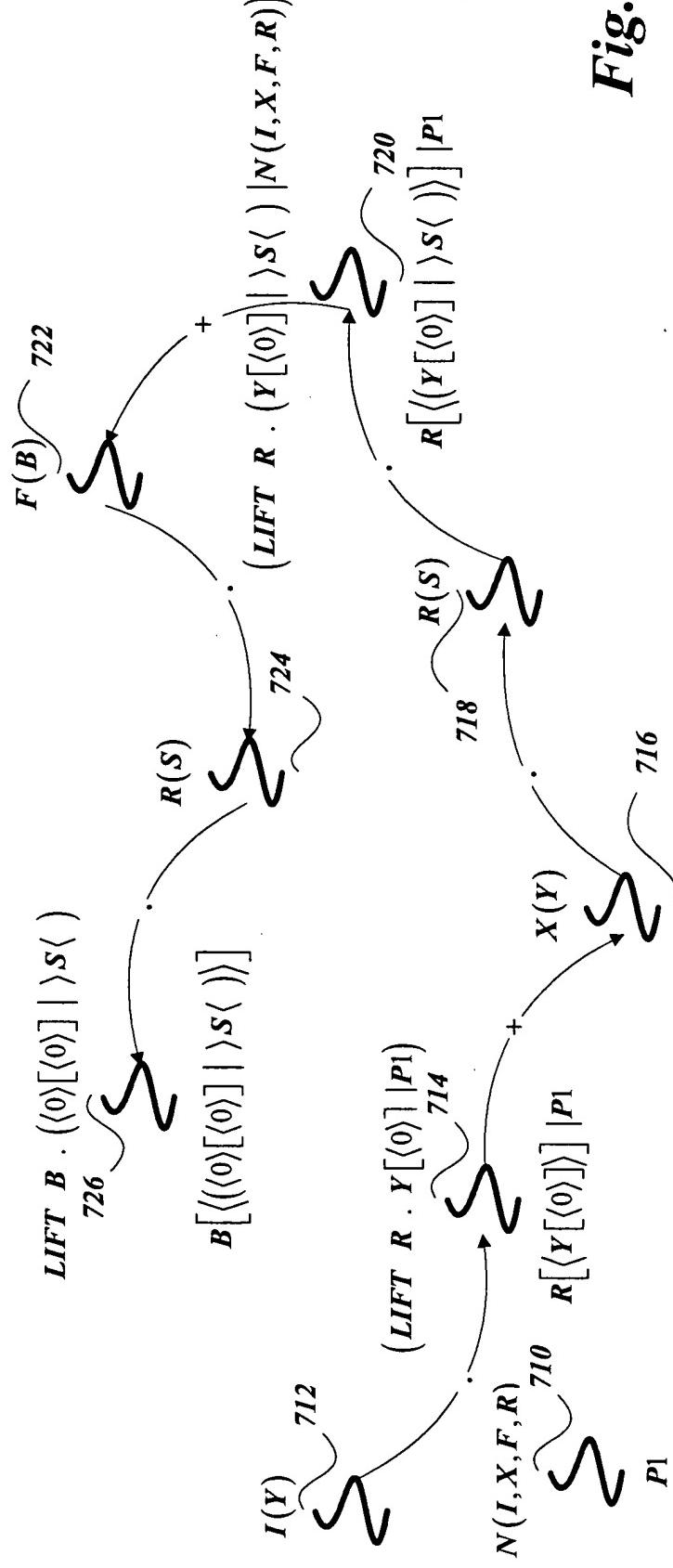
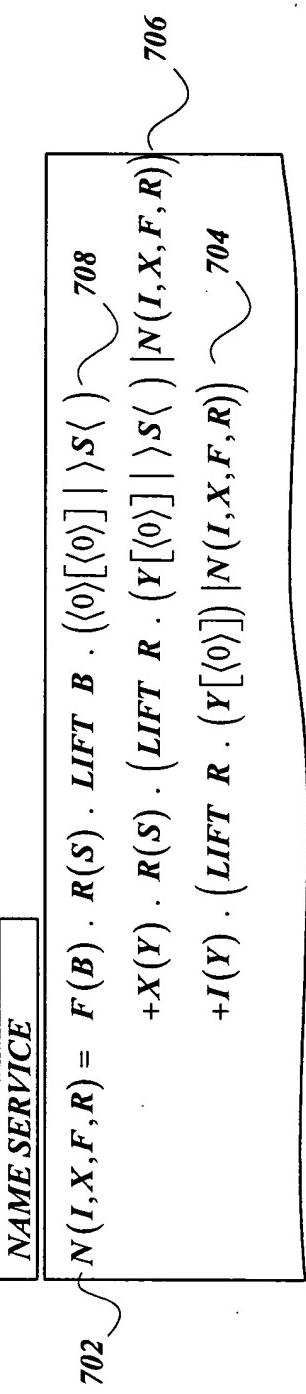
$$!P \stackrel{\Delta}{=} \text{LIFT } X . (X(Y) . ( )Y\langle X[Y] \rangle | P) | X(Z) . ( )Z\langle X[Z] \rangle | P$$

**Fig. 6B.**



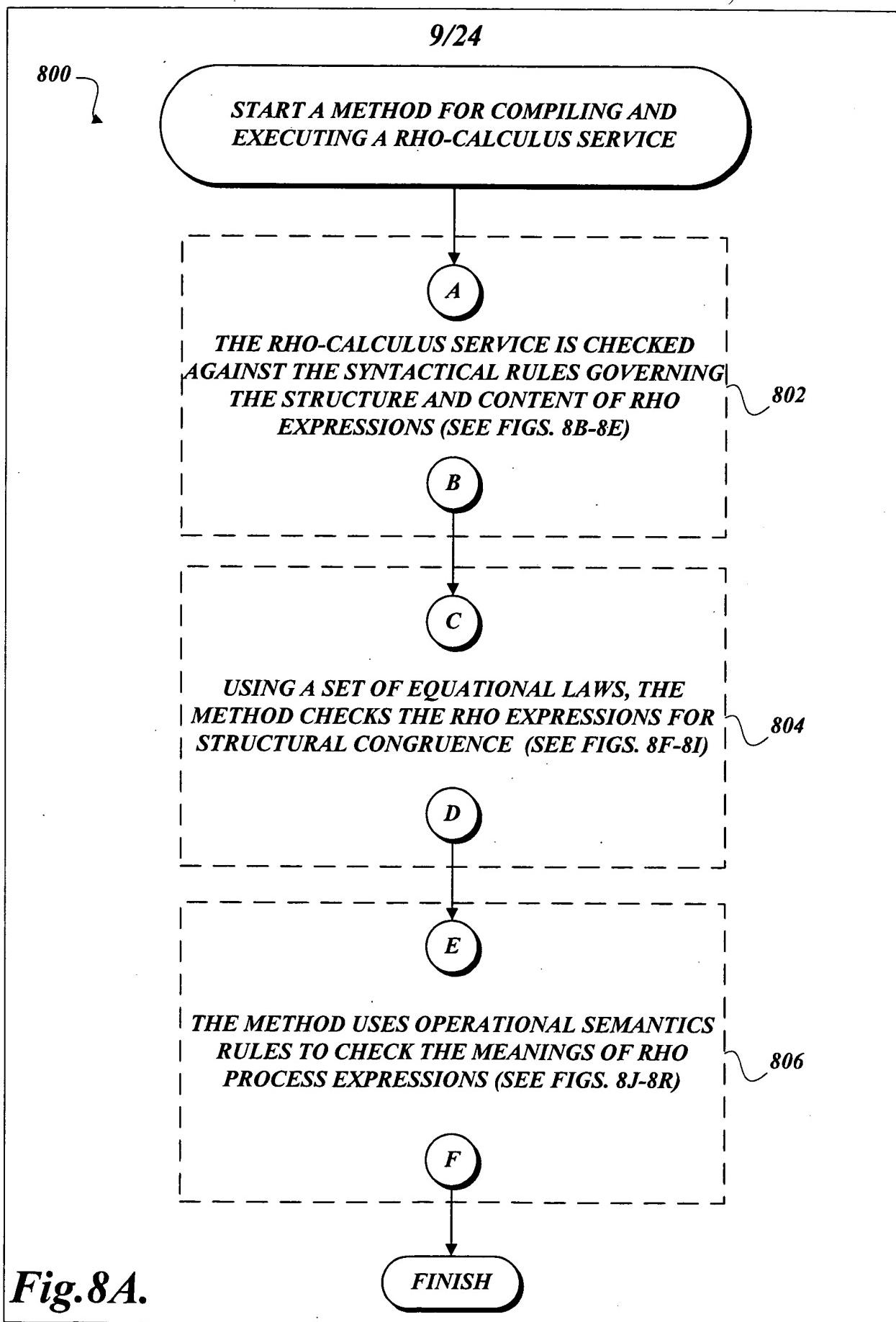
**Fig. 7A.**

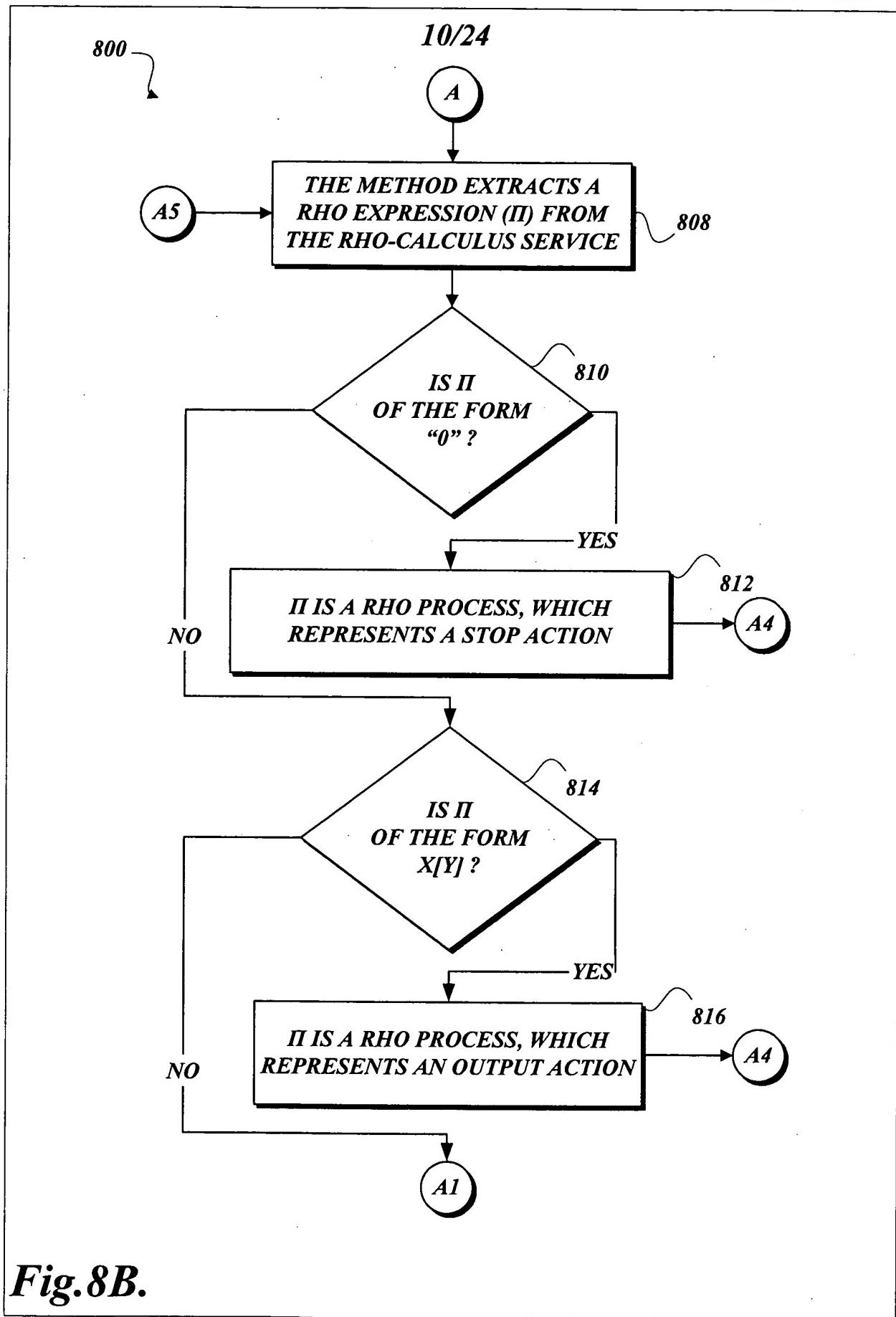
MSFT-1-22259



**Fig. 7B.**

DRAFT





**Fig.8B.**

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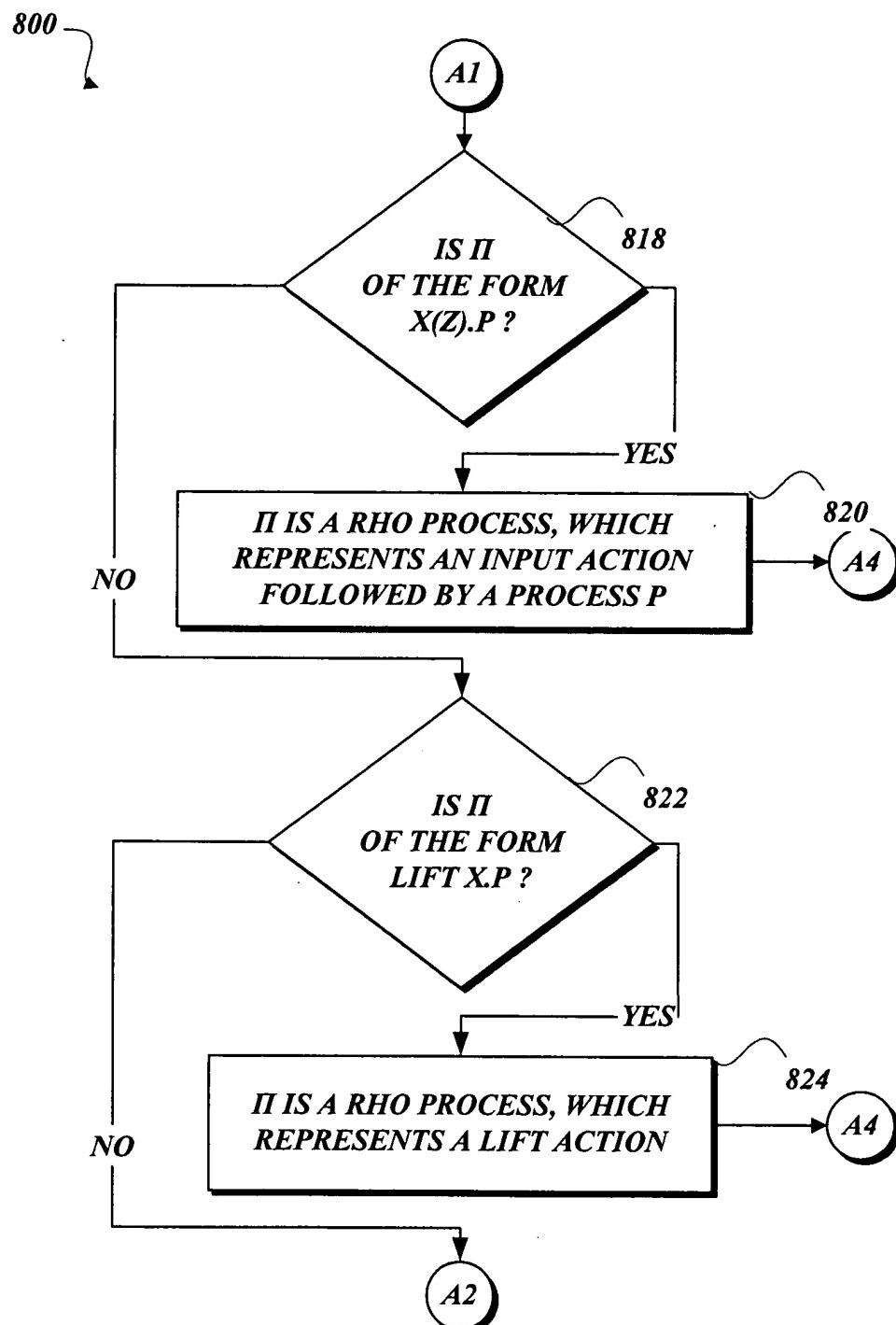


Fig.8C.

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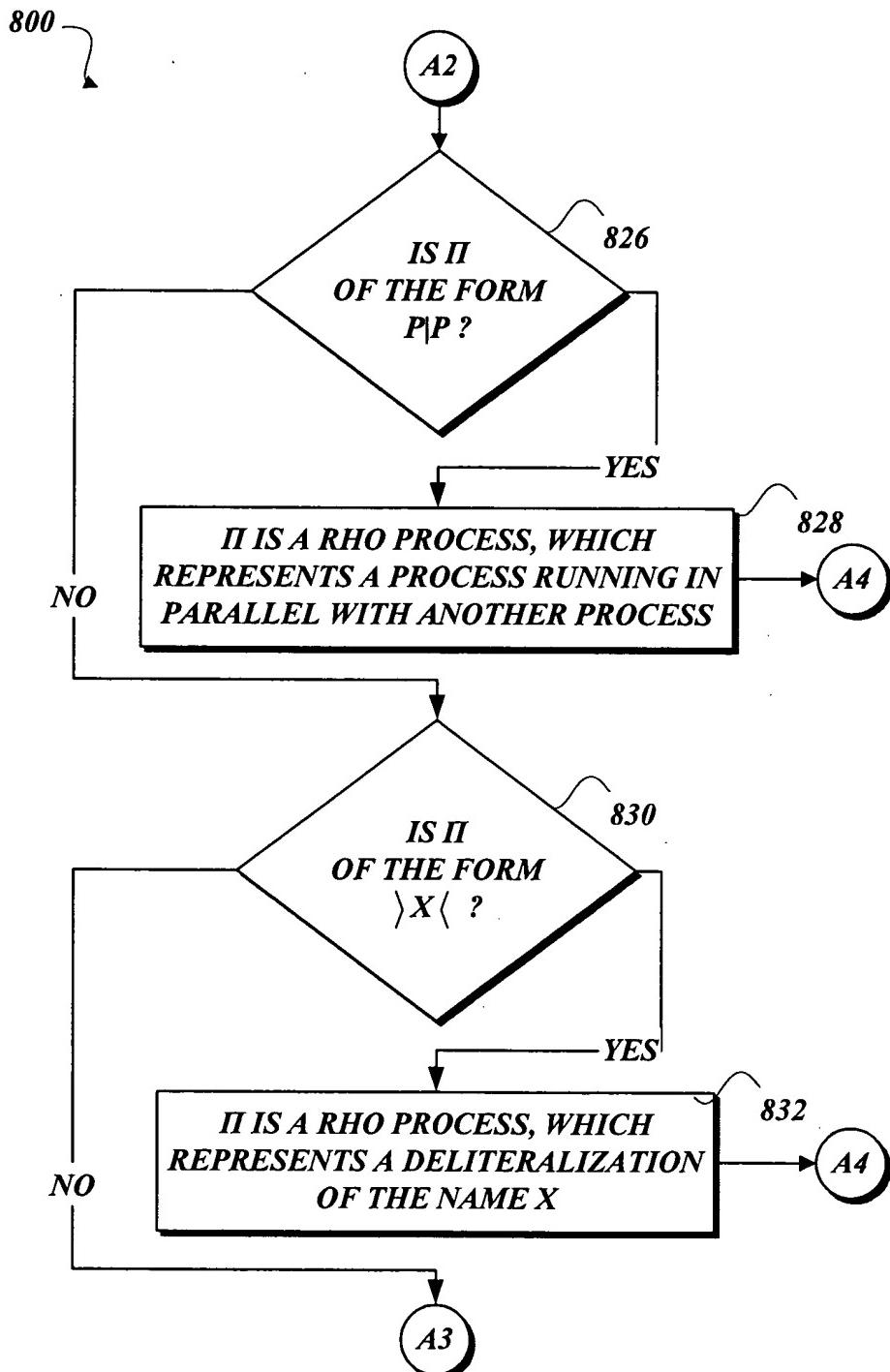
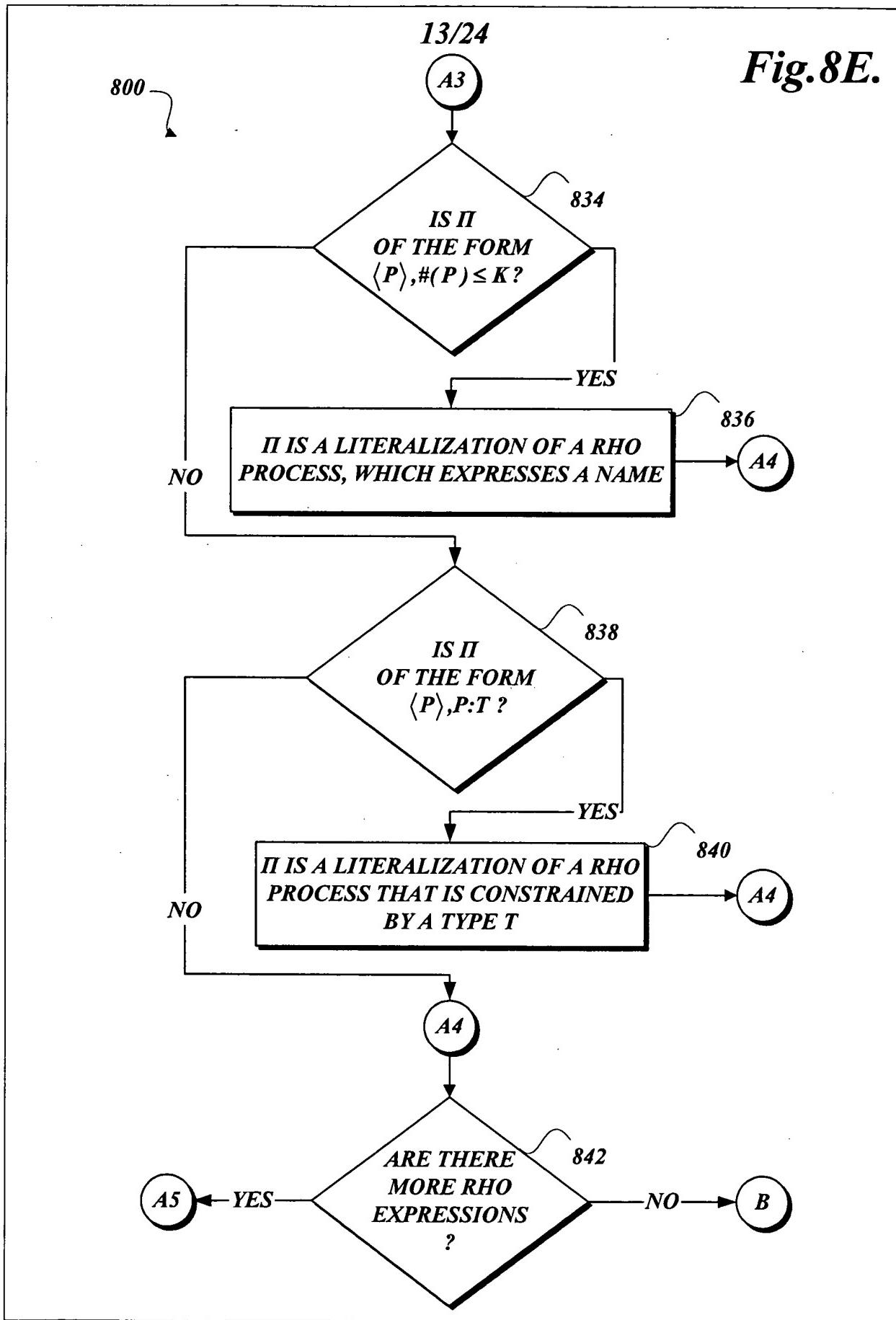
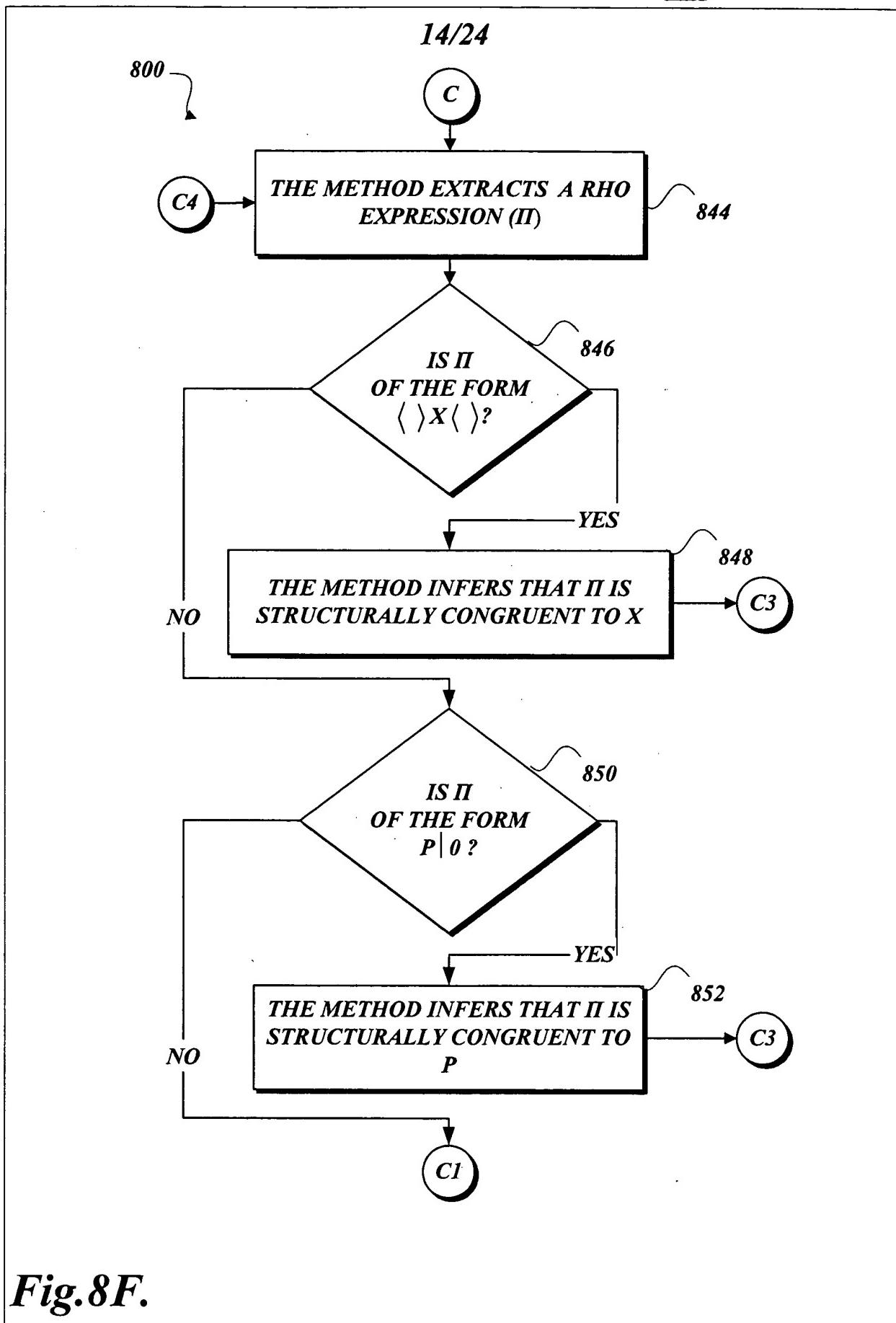


Fig.8D.





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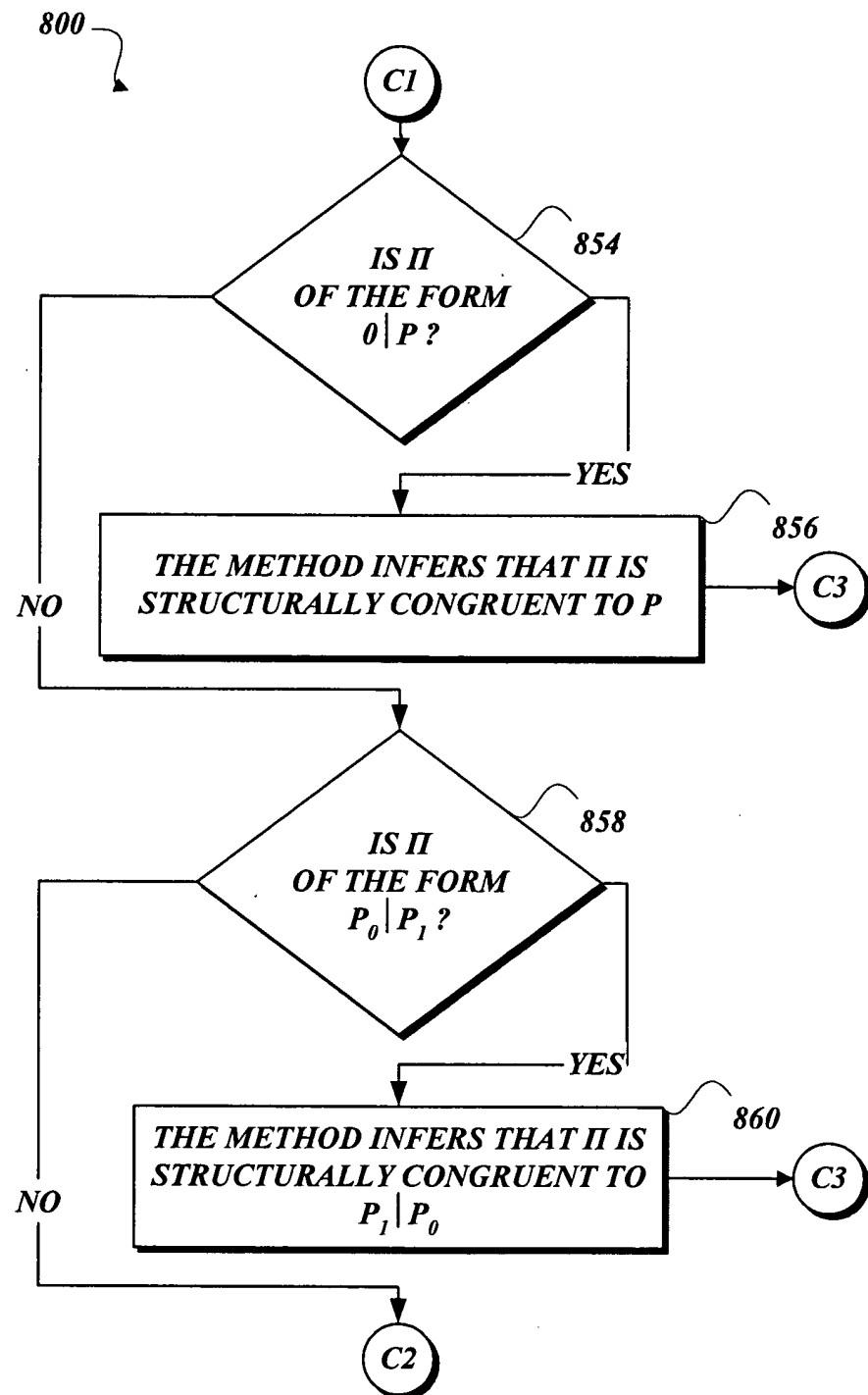
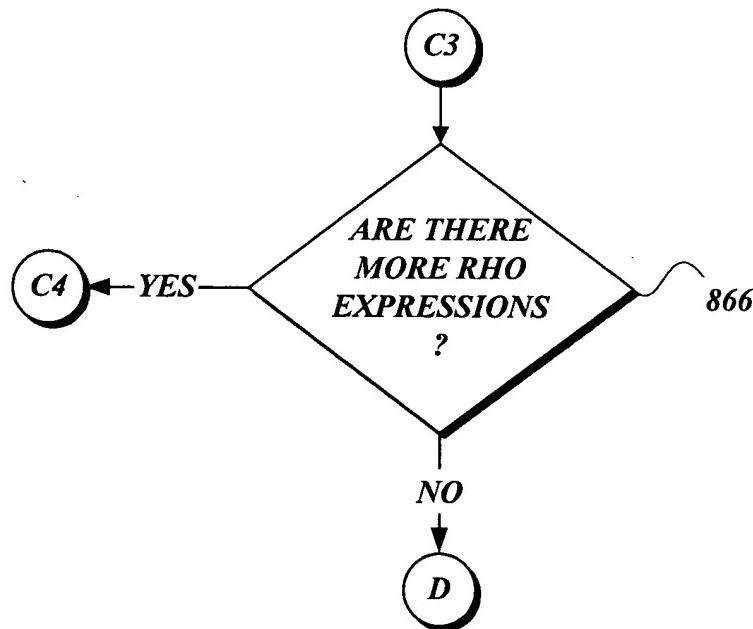
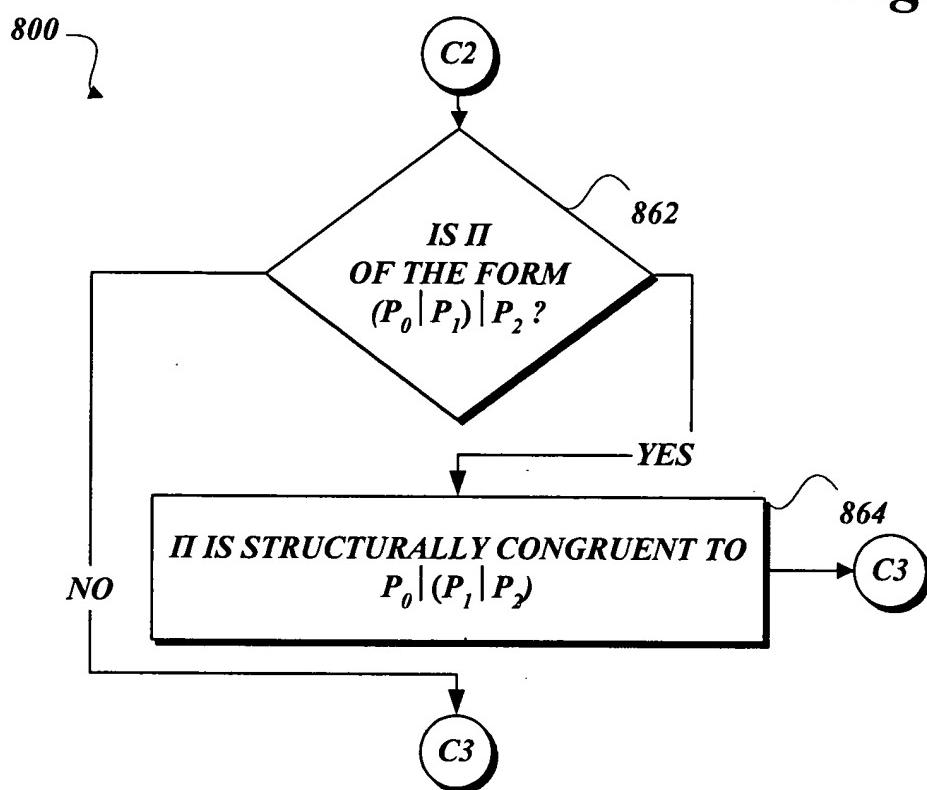


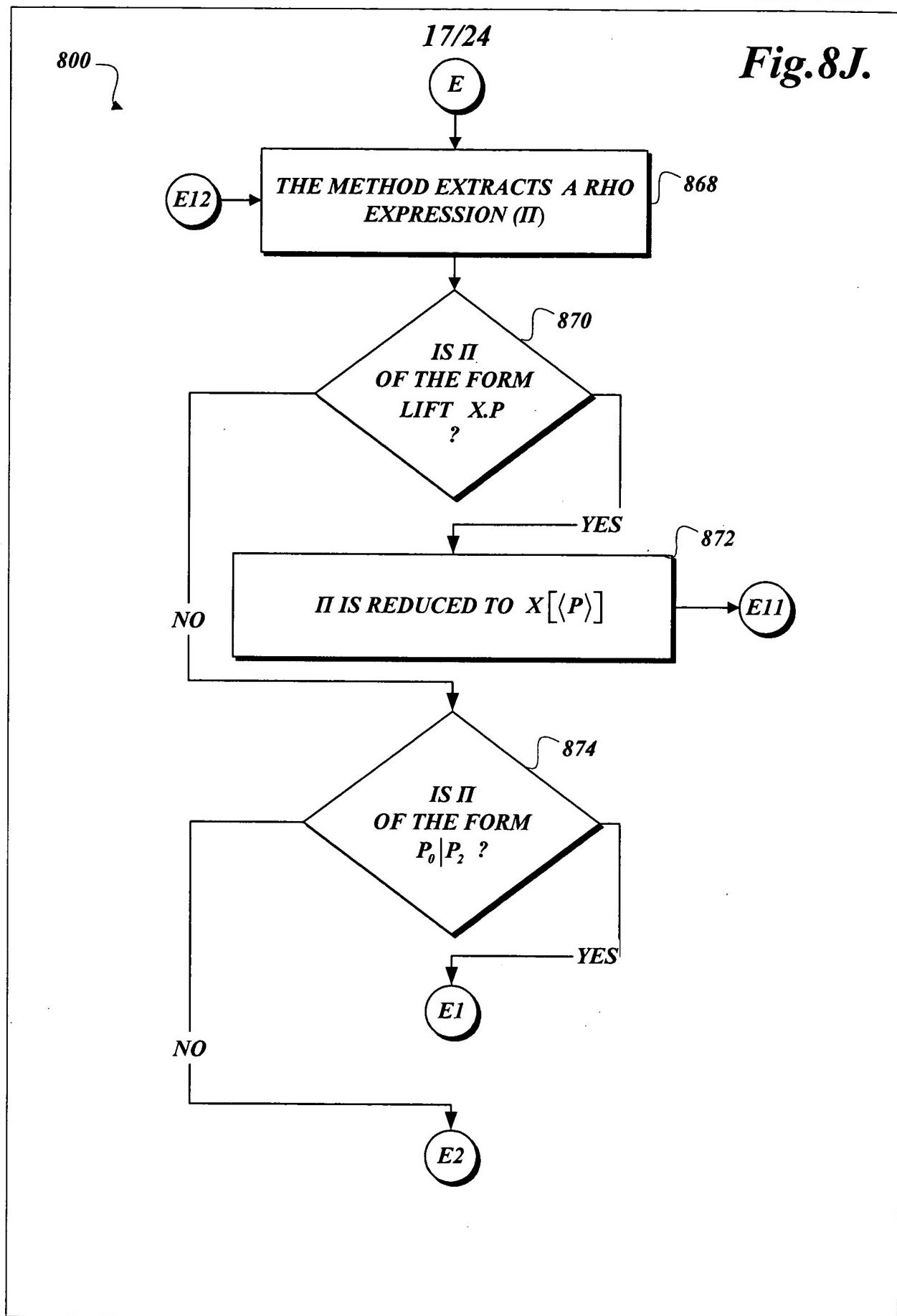
Fig.8G.

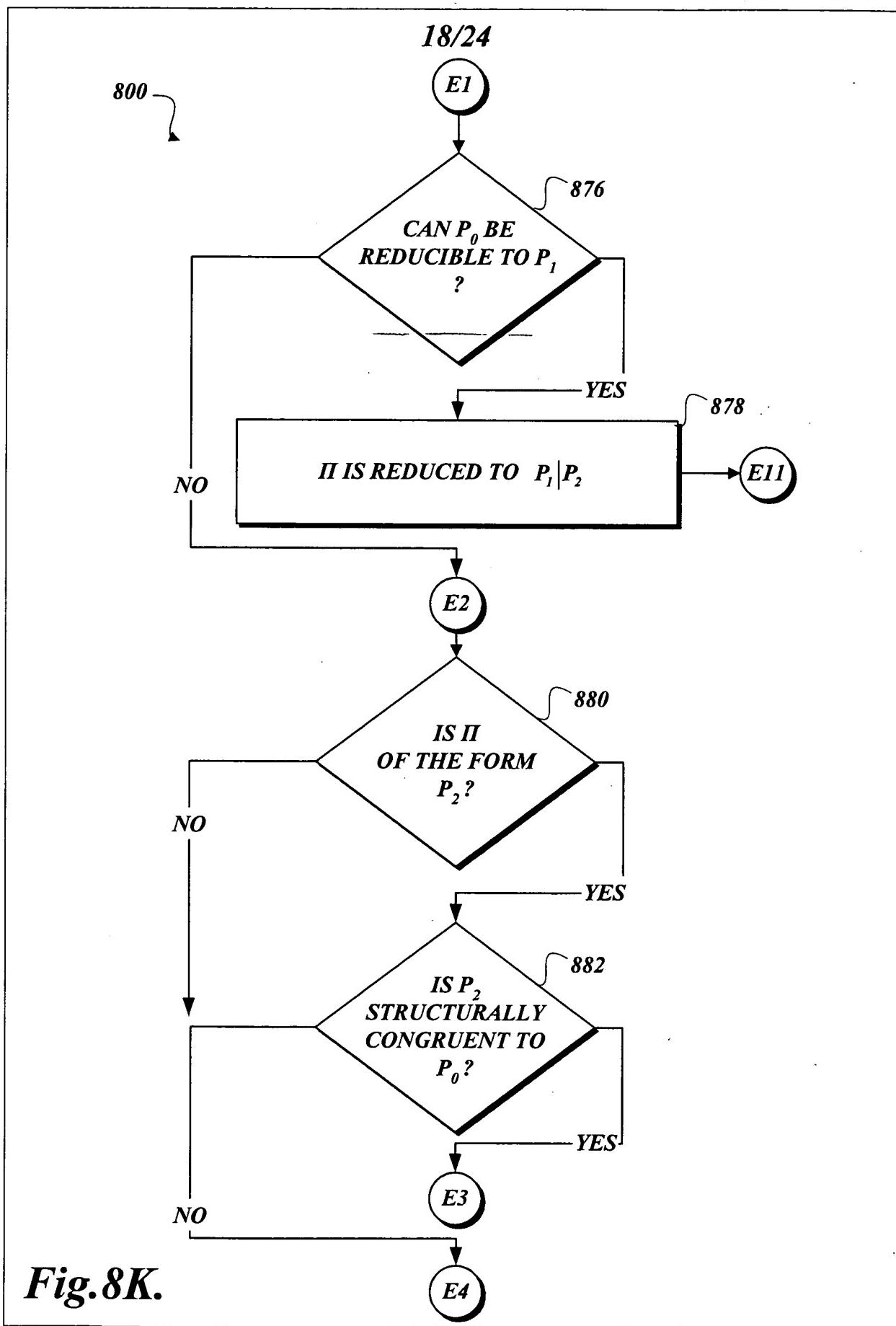
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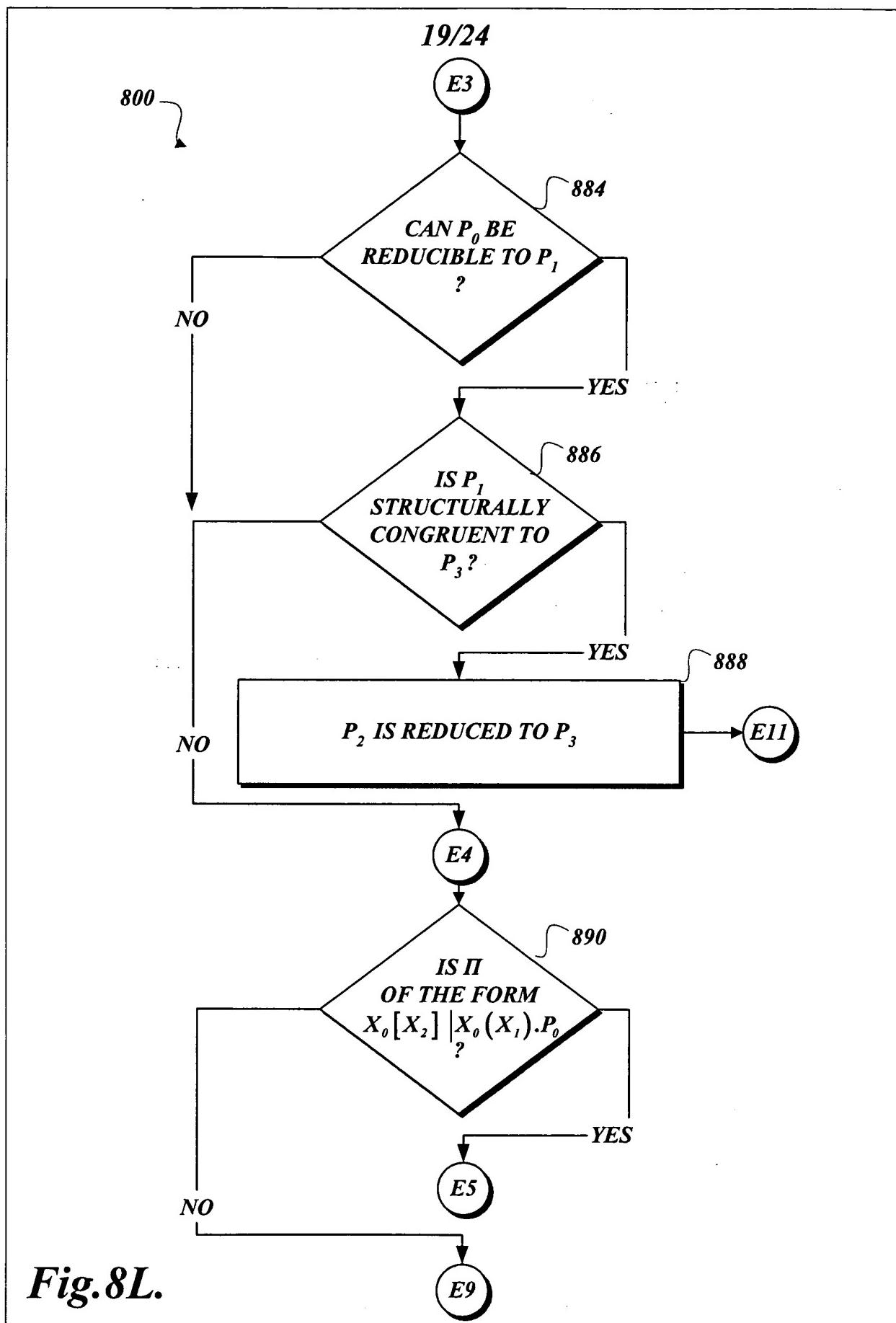
**Fig.8H.**



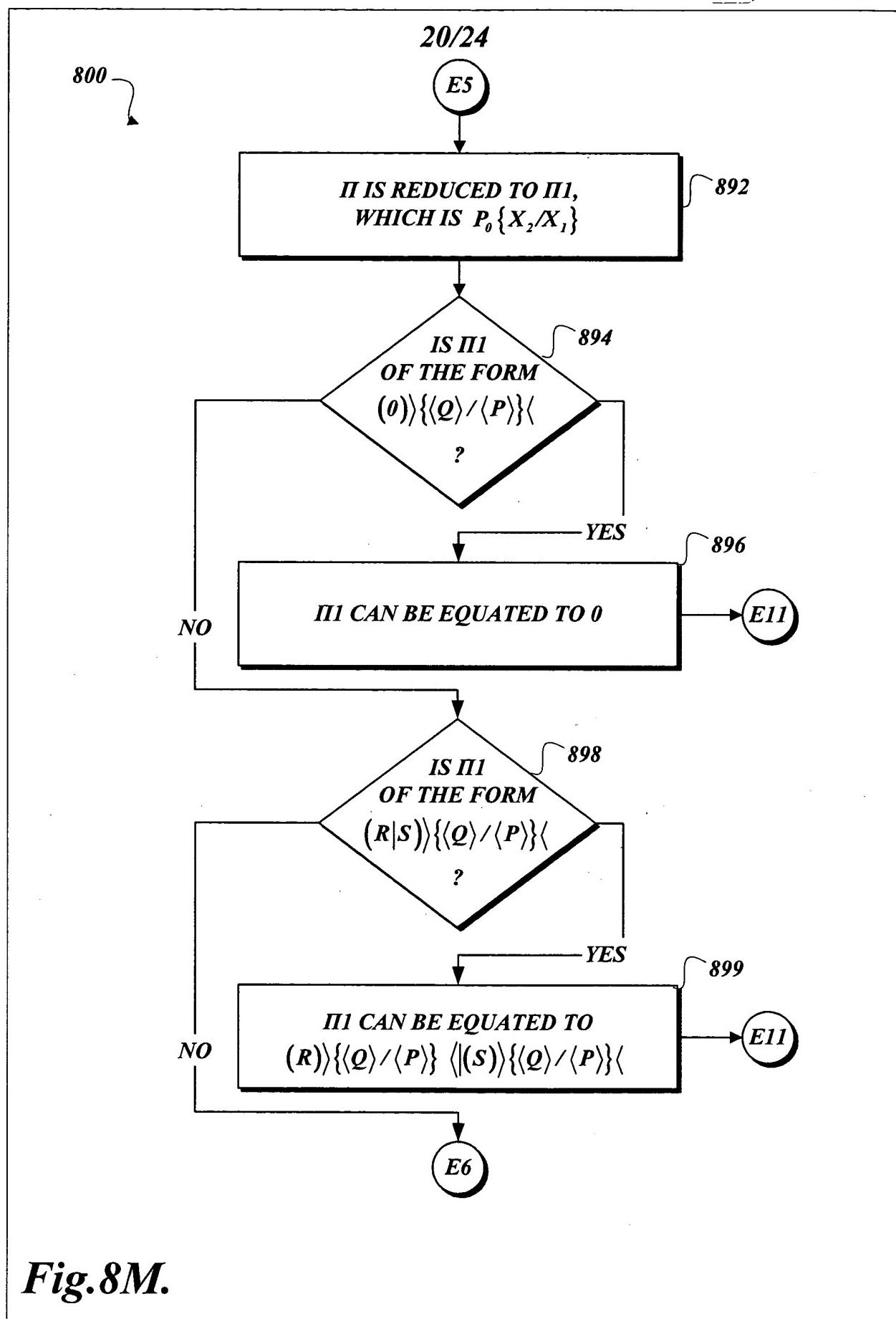
**Fig.8I.**



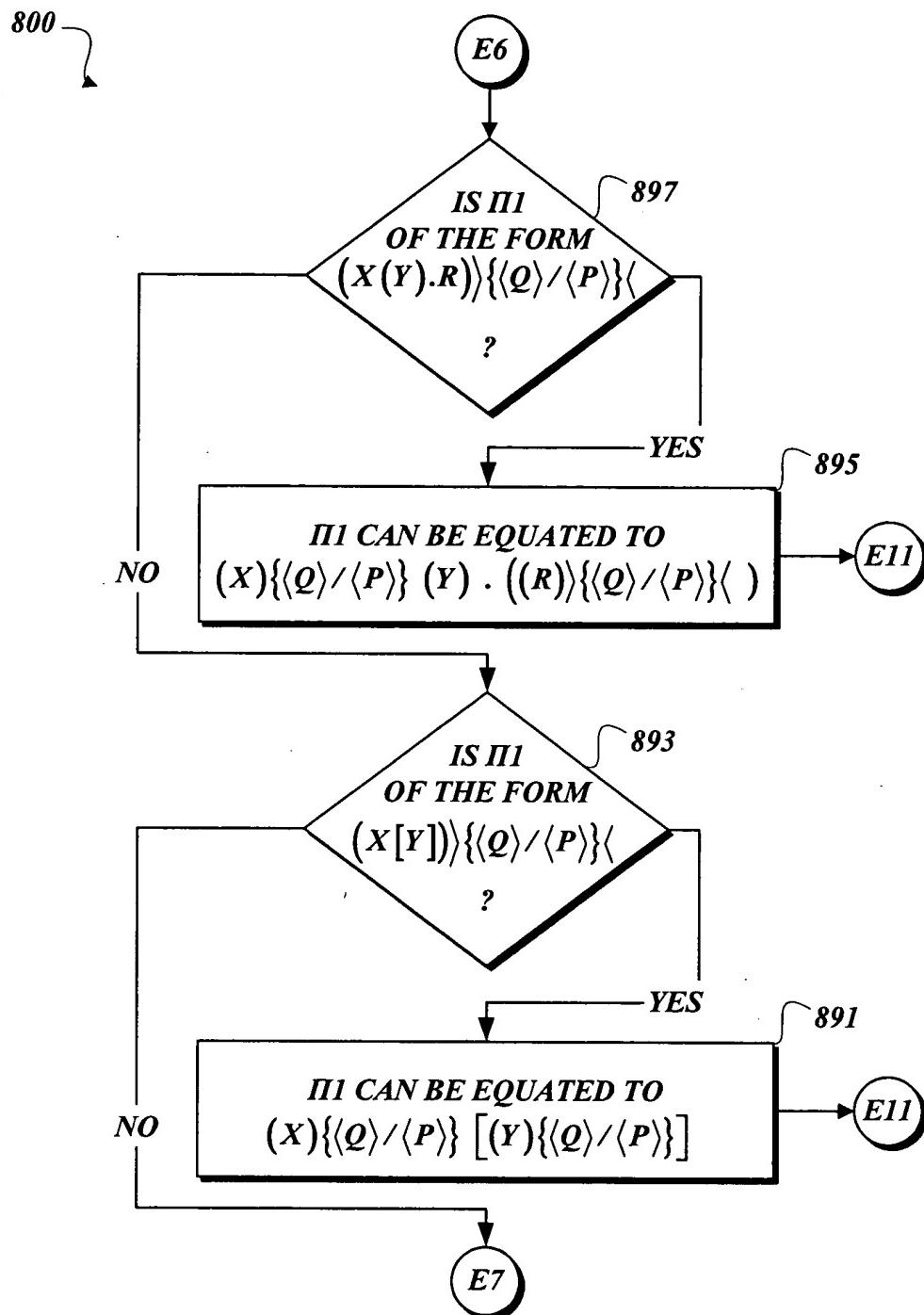




**Fig. 8L.**



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**Fig.8N.**

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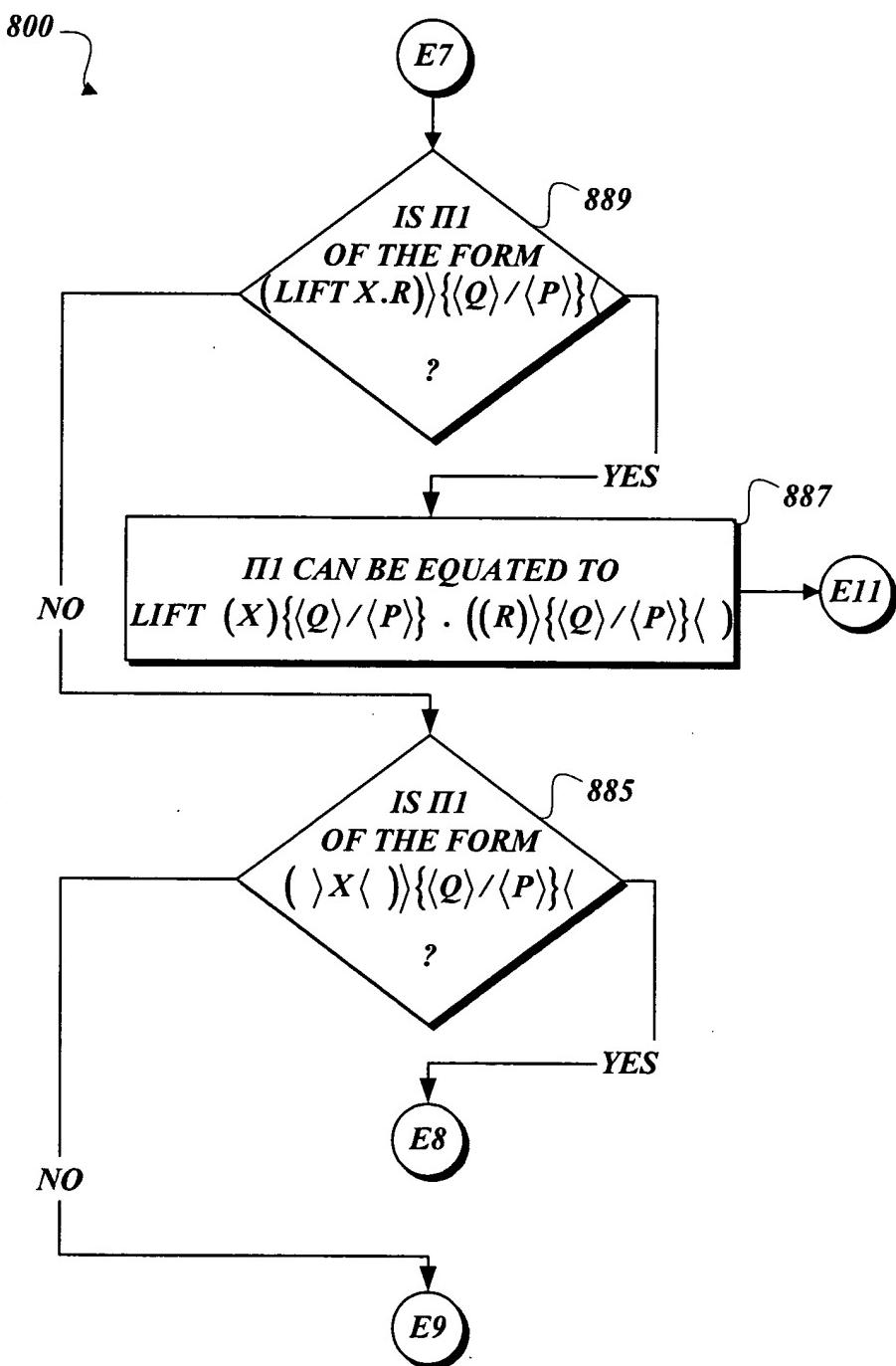


Fig.8O.

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Fig.8P.

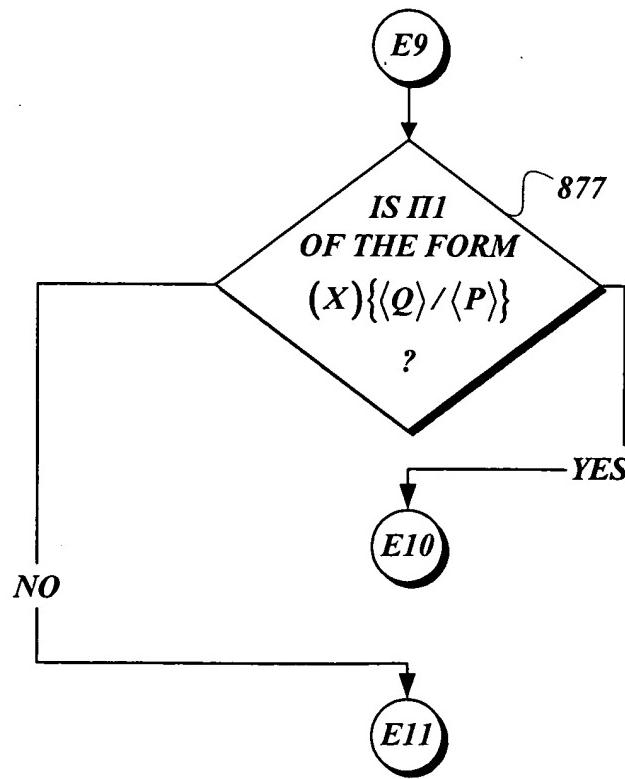
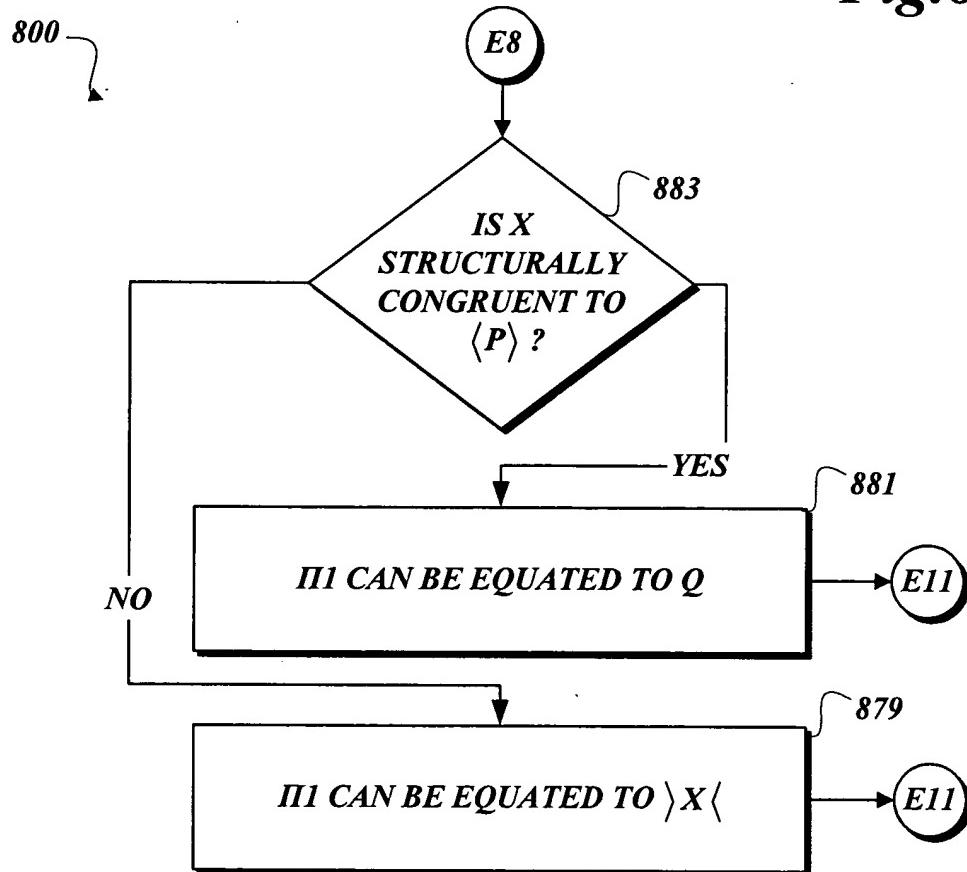
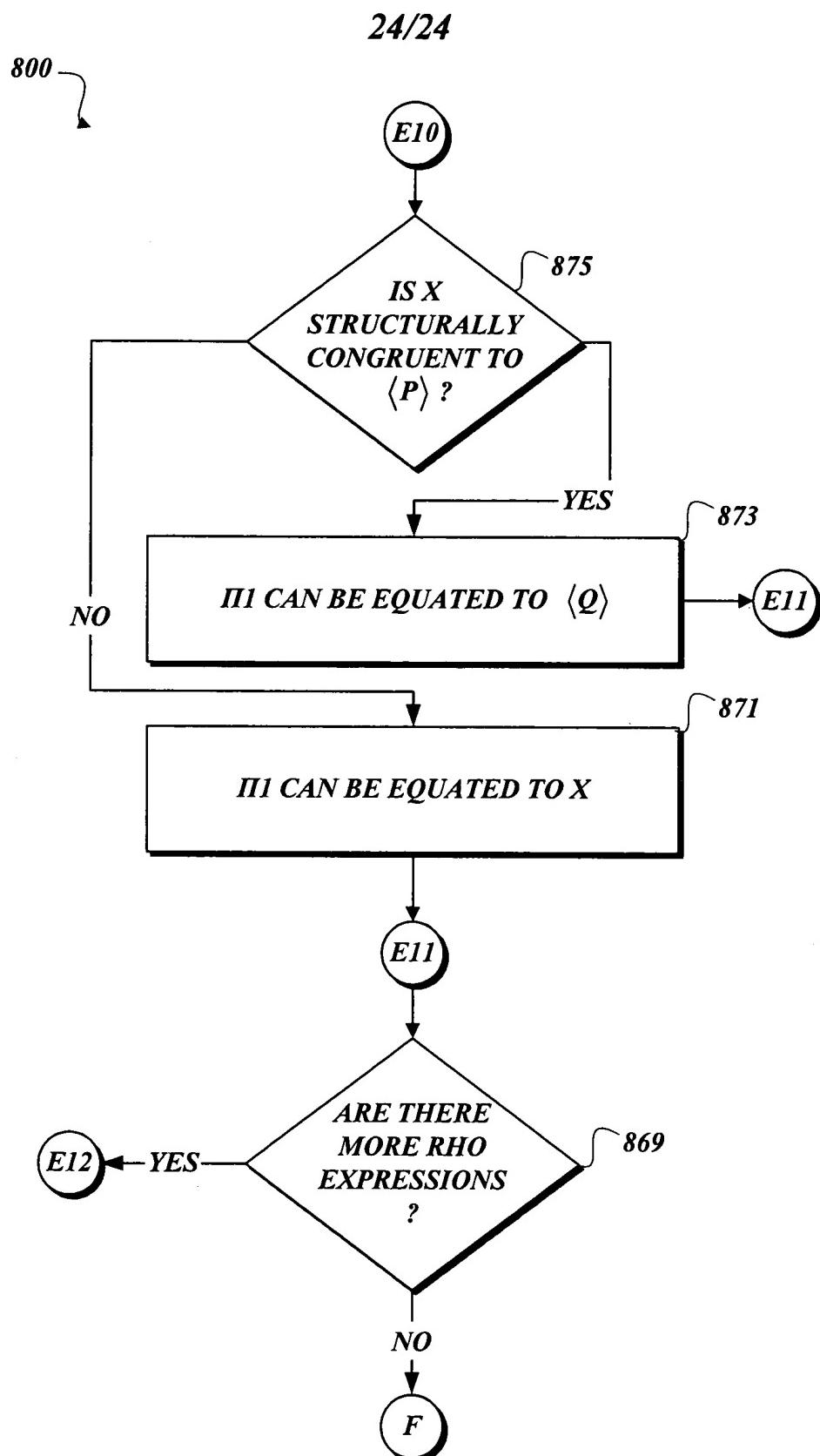


Fig.8Q.



**Fig.8R.**